ABSTRACT OF THE DISCLOSURE

A first route is associated with a first channel of two or more channels in a first dense wavelength division multiplex (DWDM) link. A second route is associated with a second channel of the two or more channels in the first dense wavelength division multiplex (DWDM) link. A third route is associated with a third channel of two or more channels in a second dense wavelength division multiplex (DWDM) link. The first route, the second route and the third route provide similar connections. The first DWDM link is different from the second DWDM link. The third route is preselected as an alternate diverse route for a connection through the first route.